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Amendments to the Claims

- 1. (*Previously presented*) An electric insulating material comprising a glass fiber layer and a mica layer disposed thereon, wherein the glass fiber layer comprises twist-free glass yarn.
- 2. (*Previously presented*) An electric insulating material according to claim 1, wherein the glass fiber layer is a woven glass fabric.
- 3. *(Previously presented)* An electric insulating material according to claim 1, additionally comprising at least one polymeric resin.
- 4. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin comprises a thermosetting resin.
- 5. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin comprises at least one epoxy resin.
- 6. (*Previously presented*) An electric insulating material according to claim 3, wherein the polymeric resin comprises at least one silicone resin.
- 7. (*Previously presented*) An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 3% to about 25% by weight.
- 8. (*Previously presented*) An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 5% to about 18% by weight.
- 9. *(Previously presented)* An electric insulating material according to claim 3, additionally comprising a cure accelerator.
- 10. *(Previously presented)* An electric insulating material according to claim 9, wherein the cure accelerator comprises a metal or an amine.

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- 11. (Currently amended) An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about by weight about 25% to about 50% by weight.
- 12. (Previously presented) An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 27% to about 45% by weight.
- (Previously presented) An electric insulating material according to claim 1, in the form 13. of a tape.

Claims 14 to 18 (Withdrawn)

19. (Currently amended) A high temperature insulated wire manufactured using a process according to claim 16, by:

wrapping an electrical conductor suitable for high temperature environments with an electric insulating material comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon;

wherein said wire is rated for operation at temperatures up to 450°C.

- 20. (Currently amended) A high temperature insulated wire comprising a wire suitable for high temperature environments wrapped with a tape according to claim 16, comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon, wherein said high temperature wire is rated for operation at temperatures up to 1100°C.
- 21. (Currently amended) A high temperature insulated coil manufactured using a process according to claim 17 by:

wrapping an electrical conductor with an electric insulating material comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon,

22. (New) An electric insulating material according to claim 1, wherein the twist-free glass yarn comprises zero-twist glass yarn.

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23. (New) An electric insulating material according to claim 1, wherein the material comprises a greater mica content for a given material thickness compared to a material comprising a non-twist free glass yarn having about the same material thickness.

- 24. (New) An electric insulating material according to claim 1, wherein the material comprises a greater mica-to-glass ratio for a given material thickness compared to a material comprising a non-twist free glass yarn having about the same material thickness.
- 25. (New) An electric insulating material according to claim 3, wherein the material comprises a lower total polymeric resin content compared to a material comprising a non-twist free glass yarn.
- 26. (New) An electric insulating material according to claim 1, wherein the material comprises a lower dissipation factor (DF) compared to a material comprising a non-twist free glass yarn.
- 27. (New) An electric insulating material according to claim 1, wherein the material comprises a lower dissipation factor (DF) at 160 degrees C at a given mica weight compared to a material comprising a non-twist free glass yarn having about the same mica weight.
- 28. (*New*) An electric insulating material comprising a glass fiber layer, a mica layer disposed thereon, and at least one polymeric resin, wherein the glass fiber layer comprises twist-free glass yarn obtained by the following process steps:
- (a) providing a fiberglass forming package with a single fiberglass strand wound on the package and having a longitudinal axis;
- (b) supporting the package in a manner that permits rotation of the package about the longitudinal axis;
- (c) pulling the single strand from the package along the longitudinal axis and simultaneously rotating the package about the longitudinal axis while maintaining a rotational surface speed of the package equal to a linear speed of pulling the single strand and in a direction

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of rotation such that the fiberglass strand is pulled off the package with a net zero amount of twist; and

(d) wrapping the single strand which is pulled from the package onto a beam which can be used to form a warp beam.